# **AUDIT REPORT**

Hostname: Dist SW1

Config file name: Dist\_SW1\_startup-config.cfg

b92c994ebbb2fb6b8b9e2d089ed71f2320d31855 Config hash:

Vendor: cisco OS: ios

Facility layer: collapsed\_distribution\_access

L3 protocols: ipv4

Enabled functions: ospf ipv4,hsrp Date: 18/05/2020\_09:43

## **SUCCESS STATISTICS**

Weighted score

52 out of 100 coefficient:

Successful checks: 33.3% Unsuccessful checks: 66.7%

Total number of relevant 159

started checks:

Successful checks: 53 Unsuccessful 'Critical': 25 Unsuccessful 'High': 45 Unsuccessful 'Medium': 32 Unsuccessful 'Low': Unsuccessful 'Notice':

# **Authentication, Authorization, Accounting**

No.	Name	Severity	Skipped	Cannot determine search/fix			
1	AAA new model/ Enabled AAA	High	False	False	Error 🗶		
	rated fix: ew-model						
2	AAA server set	High	False	False	Error 🗶		
radius addre	rated fix: s server RADIUS_SERVER ss ipv4 192.168.60.11 adKey1						
3	AAA server group	High	False	False	Error 🗶		
aaa g	rated fix: roup server radius RADIUS_SERVER r name RADIUS_SERVER						
4	AAA authentication login	High	False	False	Error 🗶		
Generated fix: aaa authentication login default group RADIUS_SERVER local enable							
5	AAA authentication login fallback	High	False	False	Error 🗶		

	erated fix: uthentication login default group RADIUS_SERVER	local enable						
6	AAA authentication login only local disabled	High	False	False	Successful 🗸			
7	AAA authentication login none disabled	Critical	False	False	Successful 🗸			
8	AAA authentication "enable"	Medium	False	False	Error 🗶			
	Generated fix: aaa authentication enable default group RADIUS_SERVER enable							
9	AAA authentication "enable" fallback	Medium	False	False	Error 🗶			
	erated fix: uthentication enable default group RADIUS_SERVE	R enable						
10	AAA authentication "enable" only local disabled	Medium	False	False	Successful 🗸			
11	AAA authentication "enable" none disabled	High	False	False	Successful 🗸			
12	AAA authorization "exec"	High	False	False	Error 🗶			
	erated fix: uthorization exec default group RADIUS_SERVER lo	ocal if-authen	ticated					
13	AAA authorization "exec" fallback	High	False	False	Error 🗶			
	erated fix: uthorization exec default group RADIUS_SERVER lo	ocal if-authen	iticated					
14	AAA authorization "exec" only local disabled	High	False	False	Successful 🗸			
15	AAA authorization "exec" none disabled	Critical	False	False	Successful 🗸			
16	AAA accounting "connection"	High	False	False	Error 🗶			
	erated fix: ccounting connection default start-stop group RAD	OIUS_SERVER						
17	AAA auccounting "connection" none disabled	High	False	False	Successful 🗸			
18	AAA accounting "exec"	High	False	False	Error 🗶			
	erated fix: ccounting exec default start-stop group RADIUS_SI	ERVER						
19	AAA accounting "exec" none disabled	High	False	False	Successful 🗸			
20	AAA source interface	Medium	False	False	Error 🗶			
	erated fix: lius source-interface Loopback0							
21	AAA authentication max attempts less or equal to 5	High	False	False	Successful 🗸			

# **Access to device**

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Exec timeout <=5 minutes	Medium	False	False	Error X
line c	d error in context(s): on 0 ty 0 4				

line	erated fix: con 0 -timeout 5				
	vty 0 4 -timeout 5				
2	AUX connection input disabled	High	False	False	Successful 🗸
3	AUX no execution set	High	False	False	Error 🗶
line	nd error in context(s): aux 0				
	erated fix: aux 0 xec				
4	Remote output connections disabled	Medium	False	False	Error 🗶
line line line Gen line	erated fix: con 0 con				
trans	aux 0 sport output none vty 0 4 sport output none				
5	Local user database with encrypted password	Critical	False	False	Error X
	erated fix: name admin secret admin_password				
6	Local user database with plaintext password disabled	Critical	False	False	Successful 🗸
7	Enable password encrypted	Critical	False	False	Error 🗶
	erated fix: ble secret enablepasswd123				
8	Enable password plaintext disabled	Critical	False	False	Successful 🗸
9	Local login to virtual terminal disabled	Critical	False	False	Error X
	r configuration setting found in: vty 0 4				
	nd error in context(s): vty 0 4				
10	Restrict login to device - IPv4 ACL	Critical	False	False	Error X
	nd error in context(s): vty 0 4				
line	erated fix: vty 0 4 ss-class IPV4_VTY_ACL in				
11	ACL specified for VTY access is created	Critical	False	False	Error 🗶
	ment: not be fixed automatically!				

### Fix notice: Cannot be fixed automatically! If search is not successful create ACL, which permits only needed end stations for managing devices with these commands: ip access-list standard <acl name> remark Permiting managemnt device permit <ip address> <wildcard mask> Log login to device on failure High False False Error X Generated fix: login on-failure trap login on-failure log login on-failure log-input Fix notice: Depending on IOS, usually just one of fixing command is applicable to device. There are more because of different syntax and support among IOS versions. 13 Log login to device on success Medium False False Error X Generated fix: login on-success trap login on-success log login on-success log-input Fix notice: Depending on IOS, usually just one of fixing command is applicable to device. There are more because of different syntax and support among IOS versions. Login quiet mode Medium False **False** Error X Generated fix: login quiet-mode access-class IPV4 VTY ACL ACL exists for specified login quiet mode Medium False Error X Comment: Cannot be fixed automatically! Fix notice: Cannot be fixed automatically! If search is not successful create ACL, which permits only needed end stations for managing devices with these commands: ip access-list standard <acl name> remark Permiting managemnt device permit <ip address> <wildcard mask> 16 One user change config at time High **False False** Error X Generated fix: configuration mode exclusive configuration mode exclusive auto Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions. **False** Legal banner MOTD Low False Error X Generated fix: banner motd; Unauthorized access will be prosecuted!!; 18 Legal banner exec Low False False Successful < Right configuration setting found in: banner exec ^C \* IOSv is strictly limited to use for evaluation, demonstration and IOS \* \* education. IOSv is provided as-is and is not supported by Cisco's \* \* Technical Advisory Center. Any use or disclosure, in whole or in part, \* \* of the IOSv Software or Documentation to any third party for any \* purposes is expressly prohibited except as otherwise authorized by \* \* Cisco in writing. \* Legal banner login Low False False Successful <

# Right configuration setting found in: banner login ^C \* IOSv is strictly limited to use for evaluation, demonstration and IOS \* \* education. IOSv is provided as-is and is not supported by Cisco's \* \* Technical Advisory Center. Any use or disclosure, in whole or in part, \* st of the IOSv Software or Documentation to any third party for any st\* purposes is expressly prohibited except as otherwise authorized by \* \* Cisco in writing. \* 20 Session timeout **False** Error X Medium False Found error in context(s): line con 0 line aux 0 line vty 0 4 Generated fix: line con 0 session-timeout 30 line aux 0 session-timeout 30 line vty 0 4 session-timeout 30 Error X 21 AUX exec timeout one second High False False Found error in context(s): line aux 0 Generated fix: line aux 0 exec-timeout 0 1 Not relevant 22 Restrict login to device - IPv6 ACL Critical True False Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant ACL IPv6 specified for VTY access is Critical True **False** created Comment: Skipped, required function ipv6 not configured on device. Everything is OK. 24 Login DOS block for High **False** False Error X Generated fix: login block-for 120 attempts 3 within 30 **SSH**

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	SSH enable on management connection	Critical	False	False	Error 🗶			
	d error in context(s): ty 0 4							
line v	trated fix: ty 0 4 port input ssh							
<b>Fix notice:</b> Make sure RSA key is present - generated or imported. For generating RSA key, issue command: crypto key generate rsa modulus 2048								
2	SSH version 2	Critical	False	False	Error X			

### Generated fix: ip ssh version 2 SSH timeout Medium False False Error X Generated fix: ip ssh timeout 30 ip ssh time-out 30 Fix notice: Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions. SSH max 3 retries Medium False False Successful < 5 SSH source interface High False False Error X Generated fix: ip ssh source-interface Loopback0 6 SSH not default port High False False Error X Generated fix: ip ssh port 2223 rotary 1 SSH not default port applied False False Error X High Found error in context(s): line vty 0 4 Generated fix: line vty 0 4 rotary 1

## **Device identification**

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Hostname set	Low	False	False	Successful 🗸
	ment: ot be fixed automatically!				
	t configuration setting found in: name Dist_SW1				
2	Domain name set	Low	False	False	Error 🗶
ip do ip do	erated fix: main-name thesis-test.cz main name thesis-test.cz  notice: notice of fixing command is applicable to device. The	re are more b	ecause of diffe	rent syntax am	ong IOS versions.
3	All interfaces have description	Low	False	False	Error 🗶
Cann Righ interf	ment: ot be fixed automatically! t configuration setting found in: face GigabitEthernet0/0 ription uplink				

## Found port(s) with error:

Port-channel1

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/0
GigabitEthernet1/1

GigabitEthernet1/2 GigabitEthernet1/3

GigabitEthernet2/0 GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

Vlan20

Vlan30

## Fix notice:

Set interface descrtiption with command:

interface <interface name>

description <description of interface>

# Fix ignore comment:

Fixing commands suppressed due to manual need of manual chenage and name determination.

### **SNMP**

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	SNMP v2 write disabled	Critical	False	False	Error X
	r configuration setting found in: o-server community SNMP_V2 RW				
2	SNMP v2 read without ACL disabled	Critical	False	False	Successful 🗸
3	SNMP v2 read with ACL disabled	Critical	False	False	Successful 🗸
4	SNMP v1 trap host disabled	Critical	False	False	Successful 🗸
5	SNMP v2 trap host disabled	Critical	False	False	Successful 🗸
6	SNMP v3 read [authnopriv noauth authpriv without ACL] or write disabled	Critical	False	False	Successful 🗸
7	SNMP v3 read authpriv with ACL enabled	d Critical	False	False	Error 🗶
	o-server user SNMPv3USER SNMP_V3_GRP v3 auth				
	SNMP v3 read authpriv with IPv6 ACL enabled	Critical	True	False	Not relevant
8 Com	SNMP v3 read authpriv with IPv6 ACL enabled  ment: ped, required function ipv6 not configured on device.			False	Not relevant
	SNMP v3 read authpriv with IPv6 ACL enabled			False False	Not relevant
8 <b>Com</b> Skipp	SNMP v3 read authpriv with IPv6 ACL enabled  ment: ped, required function ipv6 not configured on device SNMP user v1 v2c or v3 [noauth authnopriv no sha no	e. Everything	is OK.		Not relevant ✓
8 Com Skipp 9 10 Gene	SNMP v3 read authpriv with IPv6 ACL enabled  ment:  bed, required function ipv6 not configured on device SNMP user v1 v2c or v3  [noauth authnopriv no sha no aes without ACL] disabled	e. Everything Critical	is OK. False	False	Not relevant ✓  Successful ✓
8 Com Skipp 9 10 Gene	SNMP v3 read authpriv with IPv6 ACL enabled  ment:  bed, required function ipv6 not configured on device SNMP user v1 v2c or v3  [noauth authnopriv no sha no aes without ACL] disabled  SNMP trap source interface	e. Everything Critical	is OK. False	False	Not relevant ✓  Successful ✓
3 Com Skipp 9 10 Sene	SNMP v3 read authpriv with IPv6 ACL enabled  ment:  ped, required function ipv6 not configured on device SNMP user v1 v2c or v3  [noauth authnopriv no sha no aes without ACL] disabled  SNMP trap source interface  perated fix:  perserver trap-source Loopback0	e. Everything Critical High	is OK. False False	False False	Not relevant ✓  Successful ✓  Error   ✓

### Generated fix: snmp-server host 192.168.60.11 version 3 priv SNMPv3USER SNMP traps v3 read [authnopriv|noauth] Critical 13 False False Successful < or v1|v2 disabled 14 SNMP traps enabled Medium False False Error X Generated fix: snmp-server enable traps Critical 15 ACL is created for SNMPv3 False False Error X Comment: Cannot be fixed automatically! Fix notice: Cannot be fixed automatically! If search is not successful create ACL, which permits only needed end stations for receiving SNMP with these commands: ip access-list standard <acl name> remark Permiting SNMP permit <ip address> <wildcard mask> Not relevant 16 ACL IPv6 is created for SNMPv3 Critical True False Comment: Skipped, required function ipv6 not configured on device. Everything is OK. SNMP interface index persist enabled High False **False** Error X globally Generated fix: snmp-server ifindex persist snmp ifmib ifindex persist Fix notice: Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions. SNMP interface index persist enabled 18 High **False** False Error X per interface Found port(s) with error: Port-channel1 GigabitEthernet0/0 GigabitEthernet0/1 GigabitEthernet0/2 GigabitEthernet0/3 GigabitEthernet1/0 GigabitEthernet1/1 GigabitEthernet1/2 GigabitEthernet1/3 GigabitEthernet2/0 GigabitEthernet2/1 GigabitEthernet2/2 GigabitEthernet2/3 GigabitEthernet3/0 GigabitEthernet3/1 GigabitEthernet3/2 GigabitEthernet3/3 Vlan20 Vlan30

Generated fix: interface Port-channel1 snmp ifindex persist exit interface GigabitEthernet0/0 snmp ifindex persist exit interface GigabitEthernet0/1 snmp ifindex persist exit interface GigabitEthernet0/2 snmp ifindex persist exit interface GigabitEthernet0/3 snmp ifindex persist exit interface GigabitEthernet1/0 snmp ifindex persist exit interface GigabitEthernet1/1 snmp ifindex persist exit interface GigabitEthernet1/2 snmp ifindex persist exit interface GigabitEthernet1/3 snmp ifindex persist interface GigabitEthernet2/0 snmp ifindex persist exit interface GigabitEthernet2/1 snmp ifindex persist interface GigabitEthernet2/2 snmp ifindex persist exit interface GigabitEthernet2/3 snmp ifindex persist interface GigabitEthernet3/0 snmp ifindex persist exit interface GigabitEthernet3/1 snmp ifindex persist interface GigabitEthernet3/2 snmp ifindex persist exit interface GigabitEthernet3/3 snmp ifindex persist exit interface Vlan20 snmp ifindex persist exit interface Vlan30 snmp ifindex persist exit

# **Syslog**

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	Syslog server enabled	High	False	False	Successful 🗸			
_	Right configuration setting found in: logging host 192.168.50.11							
2	Syslog server IPv6 enabled	High	True	False	Not relevant  ✓			
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
3	Syslog source interface	Medium	False	False	Error 🗶			

	erated fix: ing source-interface Loopback0								
4	Syslog format	Medium	False	False	Successful 🗸				
_	et configuration setting found in: ce timestamps log datetime msec								
5	Syslog critical alerts to console	Medium	False	False	Successful 🗸				
_	nt configuration setting found in: ing console critical								
6	Syslog send informational traps	High	False	False	Successful 🗸				
7	Syslog buffer set with severity	High	False	False	Error 🗶				
	erated fix: ing buffered 40960 informational								
8	Syslog local backup	High	False	False	Error 🗶				
	Generated fix: logging persistent url flash:								
9	Syslog sequence numbers added	Medium	False	False	Error 🗶				
	erated fix: ice sequence-numbers								

# NTP

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	NTP server set	High	False	False	Error 🗶
	erated fix: erver 192.168.60.11				
2	NTP source interface	Medium	False	False	Error 🗶
	erated fix: ource Loopback0				
3	NTP authentication key	High	False	False	Error 🗶
	erated fix: uthentication-key 1 md5 ntpPasswd123				
4	NTP trusted key	High	False	False	Error 🗶
	rated fix: usted-key 1				
5	NTP authenticate	High	False	False	Error 🗶
	erated fix: uthenticate				

# High load

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	SNMP traps for CPU load	Medium	False	False	Error 🗶

	Generated fix: snmp-server enable traps cpu threshold									
2	Threshold for CPU load	Medium	False	False	Error 🗶					
	Generated fix: process cpu threshold type total rising 70 interval 5									
3	Statistics entry for CPU load	Low	False	False	Error X					
	erated fix: ess cpu statistics limit entry-percentage 70									
4	Reserve memory for critical notification	Medium	False	False	Error X					
	erated fix: ory reserve critical 1000									
5	Minimum CPU memory notification	Medium	False	False	Error 🗶					
	Generated fix: memory free low-watermark processor 2000									
6	Minimum IO memory notification	Medium	False	False	Error 🗶					
	erated fix: ory free low-watermark io 2000									

# **Spanning tree**

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Portfast globally enabled	High	False	False	Error 🗶
span	erated fix: ning-tree portfast default ning-tree portfast edge default				
	<b>notice:</b> one of fixing command is applicable to device. T	here are more b	ecause of diffe	erent syntax am	ong IOS versions.
2	Portfast enabled on access interface	High	False	False	Error 🗶
Gigal Gigal Gigal Gigal Gigal Gigal Gigal Gigal Gigal	nd port(s) with error: bitEthernet0/2 bitEthernet1/3 bitEthernet2/0 bitEthernet2/1 bitEthernet2/2 bitEthernet2/3 bitEthernet3/0 bitEthernet3/1 bitEthernet3/2 bitEthernet3/2				

### Generated fix:

interface GigabitEthernet0/2 spanning-tree portfast spanning-tree portfast edge

interface GigabitEthernet0/3 spanning-tree portfast

spanning-tree portfast edge

interface GigabitEthernet1/3 spanning-tree portfast spanning-tree portfast edge

exit interface GigabitEthernet2/0 spanning-tree portfast

spanning-tree portfast edge exit interface GigabitEthernet2/1

spanning-tree portfast spanning-tree portfast edge exit

interface GigabitEthernet2/2 spanning-tree portfast spanning-tree portfast edge exit

interface GigabitEthernet2/3 spanning-tree portfast spanning-tree portfast edge exit

interface GigabitEthernet3/0 spanning-tree portfast spanning-tree portfast edge exit

interface GigabitEthernet3/1 spanning-tree portfast spanning-tree portfast edge exit

interface GigabitEthernet3/2 spanning-tree portfast spanning-tree portfast edge exit

interface GigabitEthernet3/3 spanning-tree portfast spanning-tree portfast edge exit

### Fix notice:

Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions.

BPDU Guard globally enabled

Critical

False

False

Error X

### Generated fix:

spanning-tree portfast bpduguard default spanning-tree portfast edge bpduguard default

# Fix notice:

Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions.

BPDU Guard enabled on access interface High

False

False

Error X

### Found port(s) with error:

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2 GigabitEthernet3/3

C-			٠.	4	fix:
uе	ne	га	τе	a	TIX:

interface GigabitEthernet0/2 spanning-tree bpduguard enable exit

interface GigabitEthernet0/3 spanning-tree bpduguard enable exit

interface GigabitEthernet1/3 spanning-tree bpduguard enable exit

interface GigabitEthernet2/0 spanning-tree bpduguard enable exit

interface GigabitEthernet2/1 spanning-tree bpduguard enable exit

interface GigabitEthernet2/2 spanning-tree bpduguard enable exit

interface GigabitEthernet2/3 spanning-tree bpduguard enable exit

interface GigabitEthernet3/0 spanning-tree bpduguard enable exit

interface GigabitEthernet3/1 spanning-tree bpduguard enable

interface GigabitEthernet3/2 spanning-tree bpduguard enable exit

interface GigabitEthernet3/3 spanning-tree bpduguard enable

5	BPDU Filter globally disabled	Critical	False	False	Successful 🗸
6	BPDU Filter disabled on access interface	High	False	False	Not relevant ✓

### Comment

Module 09\_06\_stp\_bpdu\_filter\_interface.yaml configured to run after 09\_05\_stp\_bpdu\_filter.yaml with status error but that module has not run yet with specified cmd\_match\_status, 09\_06\_stp\_bpdu\_filter\_interface.yaml will not run

7 Loop Guard globally enabled	Critical False	False	Error 🗶	
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# Generated fix:

spanning-tree loopguard default

8	Loop Guard enabled on access in	nterface High	False	False	Error 🗶	

### Found port(s) with error:

Port-channel1

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/0

GigabitEthernet1/1

GigabitEthernet1/2

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

### Generated fix:

interface Port-channel1 spanning-tree guard loop exit

interface GigabitEthernet0/1 spanning-tree guard loop

interface GigabitEthernet0/2 spanning-tree guard loop

interface GigabitEthernet0/3 spanning-tree guard loop

exit interface GigabitEthernet1/0 spanning-tree guard loop

spanning-tree guard loop exit interface GigabitEthernet1/1

spanning-tree guard loop exit

interface GigabitEthernet1/2 spanning-tree guard loop exit

interface GigabitEthernet1/3 spanning-tree guard loop exit

interface GigabitEthernet2/0 spanning-tree guard loop exit

interface GigabitEthernet2/1 spanning-tree guard loop exit

interface GigabitEthernet2/2 spanning-tree guard loop

exit interface GigabitEthernet2/3 spanning-tree guard loop

exit interface GigabitEthernet3/0 spanning-tree guard loop exit

interface GigabitEthernet3/1 spanning-tree guard loop exit

interface GigabitEthernet3/2 spanning-tree guard loop exit

interface GigabitEthernet3/3 spanning-tree guard loop exit

# **VLAN**

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Default Vlan not used	Critical	False	False	Error 🗶

Cannot be fixed automatically! Cannot automatically determine VLAN assignment to port.

### Found port(s) with error:

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/3

GigabitEthernet2/0 GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2 GigabitEthernet3/3

# Fix notice:

Eliminate ports with default Vlan by command with Vlan ID different than 1 interface <interface name>

switchport mode access

switchport access vlan <vlan id>

Management VLAN + SVI set and 2 Medium False False Successful < different than 1

### Comment:

Cannot be fixed automatically! Cannot automatically set diffrenet IP among SVI(s) a lot of prerequirements must be met as existing VLAN and port assigned to VLAN.

# Right configuration setting found in:

interface Vlan20

ip address 192.168.20.3 255.255.255.0

standby 20 ip 192.168.20.1

3 Management VLAN gateway Medium False False Error X

### Comment:

Cannot be fixed automatically! Cannot automatically set default gateway among different switches.

### Fix notice:

Default gateway can be set with command:

ip default-gateway <ip address>

Native vlan different than 1 Critical False False Successful <

### Right configuration setting found in:

interface Port-channel1 switchport trunk native vlan 100 interface GigabitEthernet0/1 switchport trunk native vlan 100 interface GigabitEthernet1/0 switchport trunk native vlan 100

interface GigabitEthernet1/1 switchport trunk native vlan 100

interface GigabitEthernet1/2

switchport trunk native vlan 100

# Specified allowed VLAN on trunk

Right configuration setting found in: interface Port-channel1

5

switchport trunk allowed vlan 20,30

interface GigabitEthernet0/1

switchport trunk allowed vlan 20,30

interface GigabitEthernet1/0

switchport trunk allowed vlan 20,30

interface GigabitEthernet1/1

switchport trunk allowed vlan 20,30

interface GigabitEthernet1/2

switchport trunk allowed vlan 20,30

6	Switchport mode dynamic disabled	Critical	False	False	Successful 🗸
7	Switchport implicit dynamic disabled	Critical	False	False	Error 🗶

Critical

**False** 

**False** 

Successful <

### Found port(s) with error:

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

### Generated fix:

interface GigabitEthernet0/2

switchport mode access

exit

interface GigabitEthernet0/3

switchport mode access

exit

interface GigabitEthernet1/3 switchport mode access

interface GigabitEthernet2/0

switchport mode access exit

interface GigabitEthernet2/1

switchport mode access

exit

interface GigabitEthernet2/2 switchport mode access

interface GigabitEthernet2/3

switchport mode access

exit

interface GigabitEthernet3/0

switchport mode access

exit

interface GigabitEthernet3/1

switchport mode access

exit

interface GigabitEthernet3/2

switchport mode access

interface GigabitEthernet3/3

switchport mode access

exit

### Right configuration setting found in:

interface Port-channel1 switchport nonegotiate interface GigabitEthernet0/1 switchport nonegotiate interface GigabitEthernet1/0 switchport nonegotiate interface GigabitEthernet1/1 switchport nonegotiate interface GigabitEthernet1/2 switchport nonegotiate

## Found port(s) with error:

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

### Generated fix:

interface GigabitEthernet0/2 switchport nonegotiate exit interface GigabitEthernet0/3

switchport nonegotiate

interface GigabitEthernet1/3 switchport nonegotiate exit

interface GigabitEthernet2/0 switchport nonegotiate

interface GigabitEthernet2/1 switchport nonegotiate

exit interface GigabitEthernet2/2

switchport nonegotiate

interface GigabitEthernet2/3 switchport nonegotiate exit

interface GigabitEthernet3/0 switchport nonegotiate

interface GigabitEthernet3/1 switchport nonegotiate

exit

interface GigabitEthernet3/2 switchport nonegotiate

interface GigabitEthernet3/3 switchport nonegotiate

exit

VTP disabled Critical False False Successful <

# **Network Mapping**

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	CDP globally disabled	Critical	False	False	Successful 🗸			
_	Right configuration setting found in: no cdp run							
2	CDP disabled on interface(s)	Critical	False	False	Matched by equivalent ✓			
	Comment:  Module was marked as matched by equivalent by module 11 01 cdp run disabled.yaml							

3	LLDP globally disabled	Critical	False	False	Successful 🗸
4	LLDP receive disabled on interface(s)	Critical	False	False	Not relevant ✓
Modu	ment: ale 11_04_lldp_receive.yaml configured to run afte not run yet with specified cmd_match_status, 11_0				error but that module
5	LLDP transmit disabled on interface(s)	Critical	False	False	Not relevant ✓
Modu	ment: ale 11_05_lldp_transmit.yaml configured to run afto ale has not run yet with specified cmd_match_stati				s error but that
6	Proxy ARP disabled on interface(s)	Critical	False	False	Error 🗶
inter no ip exit	erated fix: face GigabitEthernet0/0 proxy-arp face Vlan20				
exit inter	proxy-arp ace Vlan30 proxy-arp				
7	ICMP Unreachable disabled on interface(s)	High	False	False	Error X
interno ip exit interno ip exit exit exit interno inte	erated fix: face GigabitEthernet0/0 unreachables face Vlan20 unreachables face Vlan30 unreachables				
8	ICMPv6 Unreachable disabled on interface(s)	High	True	False	Not relevant ✓
	ment:	- F	· in OK		
Skipp 9	ped, required function ipv6 not configured on device ICMP Mask Reply disabled on interface(c)	e. Everything High	False	False	Successful 🗸
10	interface(s)  Directed broadcast disabled on interface(s)	Critical	False	False	Successful 🗸
11	interface(s) ICMP Redirects disabled on interface(s)	High	False	False	Error X
inter	erated fix: face GigabitEthernet0/0 redirects				
no ip exit inter	ace Vlan20 redirects ace Vlan30 redirects				
exit	ICMP 224.0.0.1 ping disabled in ACL	Medium	False	False	Error 🗶
	. 2				

### Generated fix:

ip access-list extended DENY\_NETWORK\_MAP remark deny ping all nodes deny icmp any host 224.0.0.1 echo log-input remark deny host query deny igmp any any host-query log-input permit ip any any

Some devices do not recognize parameter "log-input" in ACL, so manually replace it with "log"

13 IGMP Host Query disabled in ACL

Medium False **False** 

Error X

### Generated fix:

ip access-list extended DENY\_NETWORK\_MAP remark deny ping all nodes deny icmp any host 224.0.0.1 echo log-input remark deny host query deny igmp any any host-query log-input permit ip any any

#### Fix notice:

Some devices do not recognize parameter "log-input" in ACL, so manually replace it with "log"

ICMPv6 ff02::1 ping disabled in ACL

Medium True **False** 

Not relevant

### Comment:

Skipped, required function ipv6 not configured on device. Everything is OK.

MLD Host Query disabled in ACL

Medium

True **False**  Not relevant

#### Comment:

Skipped, required function ipv6 not configured on device. Everything is OK.

ACL against IPv4 network monitoring applied on interface(s)

Medium False

**False** 

Error X

### Found port(s) with error:

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2 GigabitEthernet3/3

### Generated fix:

interface GigabitEthernet0/2

ip access-group DENY\_NETWORK\_MAP in exit

interface GigabitEthernet0/3

ip access-group DENY\_NETWORK\_MAP in exit

interface GigabitEthernet1/3

ip access-group DENY\_NETWORK\_MAP in

exit

interface GigabitEthernet2/0

ip access-group DENY\_NETWORK\_MAP in exit

interface GigabitEthernet2/1

ip access-group DENY\_NETWORK\_MAP in exit

interface GigabitEthernet2/2

ip access-group DENY\_NETWORK\_MAP in exit

interface GigabitEthernet2/3

ip access-group DENY\_NETWORK\_MAP in exit

interface GigabitEthernet3/0

ip access-group DENY\_NETWORK\_MAP in exit

interface GigabitEthernet3/1

ip access-group DENY\_NETWORK\_MAP in

exit

interface GigabitEthernet3/2

ip access-group DENY\_NETWORK\_MAP in

exit

interface GigabitEthernet3/3

ip access-group DENY\_NETWORK\_MAP in

### Fix notice:

ACL will be applied to specified ACCESS interface(s). In case of existing ACL on interface in same direction, please set variable fix\_cmd\_ignore: "true" and append generated ACL from module 11\_12\_icmp\_discovery\_network to existing ACL to proper place.

17 ACL against IPv6 network monitoring applied on interface(s) Medium True False

### Comment:

Skipped, required function ipv6 not configured on device. Everything is OK.

# **Routing**

No.	Name	Severity	Skipped	Cannot determine search/fix	Status			
1	OSPF IPv4 Router ID	Medium	False	False	Error X			
	nd error in context(s): r ospf 1							
oute	erated fix: r ospf 1 r-id 1.1.1.1							
2	OSPF IPv6 Router ID	Medium	True	False	Not relevant  ✓			
	ment: led, required function ospf ipv6 not configured on a	device. Every	thing is OK.					
3	OSPFv3 Address Family General Router ID	Medium	True	False	Not relevant  ✓			
	ment: led, required function ospfv3 not configured on dev	vice. Everythi	ng is OK.					
4	OSPFv3 Address Family IPv4 Router ID	Medium	True	False	Not relevant  ✓			
Comment: Skipped, required function ospfv3 not configured on device. Everything is OK.								

_	0000 2 4 1 1 5 11 10 0 0 1 10	NA 11	_	F 1	Not relevant
5	OSPFv3 Address Family IPv6 Router ID	Medium	True	False	✓
	<b>ment:</b> ped, required function ipv6 not configured on devic	e. Everything	ı is OK.		
6	EIGRP IPv4 Router ID	Medium	True	False	Not relevant
	<b>ment:</b> bed, required function eigrp ipv4 not configured on	device. Ever	ything is OK.		
7	EIGRP IPv6 Router ID	Medium	True	False	Not relevant
					✓
	ment: ped, required function eigrp ipv6 not configured on	device. Ever	ything is OK.		
8	EIGRP Named IPv4 Router ID	Medium	True	False	Not relevant  ✓
					•
	ment:  ned, required function eigrp named not configured	on device. Ev	erything is OK.		
9	EIGRP Named IPv6 Router ID	Medium	True	False	Not relevant  ✓
					•
	<b>ment:</b> bed, required function ipv6 not configured on devic	e. Everything	ı is OK.		
10	BGP Router ID	Medium	True	False	Not relevant
_					
	<b>ment:</b> ed, required function bgp not configured on device	e. Everything	is OK.		
11	OSPF IPv4 Log adjacency changes	Medium	False	False	Successful 🗸
12	OSPF IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓
Com	ment:				
	oed, required function ospf ipv6 not configured on o	device. Every	thing is OK.		
13	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓
Com	ment:				
	ped, required function ipv6 not configured on devic	e. Everything	is OK.		
14	OSPFv3 Address Family IPv4 Log adjacency changes	Medium	True	False	Not relevant ✓
Com	ment:				
	ped, required function ospfv3 not configured on de	vice. Everythi	ing is OK.		
15	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓
Com	ment:				
	ned, required function ipv6 not configured on devic	e. Everything	is OK.		
16	EIGRP IPv4 Log neighbor changes	Medium	True	False	Not relevant ✓
C					
	ment: ped, required function eigrp ipv4 not configured on	device. Ever	ything is OK.		
17	EIGRP IPv6 Log neighbor changes	Medium	True	False	Not relevant ✓
	ment: ped, required function eigrp ipv6 not configured on	device. Ever	vthing is OK		
18	EIGRP Named IPv4 Log neighbor	Medium	True	False	Not relevant
10	changes	Alcalani	TIGC	· disc	✓
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OV		
3Kipp	EIGRP Named IPv6 Log neighbor	Medium	True	False	Not relevant
19	changes	MEGIGIII	True	ו מושכ	✓

Comment: Skipped, required function ipv6 not configured on device. Everything is OK.										
20 BGP Log neighbor changes	Medium	True	False	Not relevant  ✓						
<b>Comment:</b> Skipped, required function bgp not configured on device.	Comment: Skipped, required function bgp not configured on device. Everything is OK.									
21 RIP auto summary disabled	High	True	False	Not relevant ✓						
<b>Comment:</b> Skipped, required function rip not configured on device.	Everything is	5 OK.								
22 EIGRP IPv4 Auto summary disabled	High	True	False	Not relevant  ✓						
<b>Comment:</b> Skipped, required function eigrp ipv4 not configured on o	device. Every	thing is OK.								
23 EIGRP IPv6 Auto summary disabled	High	True	False	Not relevant  ✓						
Comment: Skipped, required function eigrp ipv6 not configured on o	device. Every	thing is OK.								
24 EIGRP Named IPv4 Auto summary disabled	High	True	False	Not relevant ✓						
Comment: Skipped, required function eigrp named not configured o	on device. Ev	erything is OK.								
25 EIGRP Named IPv6 Auto summary disabled	High	True	False	Not relevant  ✓						
Comment: Skipped, required function ipv6 not configured on device	e. Everything	is OK.								
26 BGP Auto summary disabled	High	True	False	Not relevant  ✓						
Comment: Skipped, required function bgp not configured on device.	. Everything	is OK.								
27 BGP Multihop disabled or TTL security used	High	True	False	Not relevant  ✓						
<b>Comment:</b> Skipped, required function bgp not configured on device.	. Everything	is OK.								
	Critical	False	False	Successful 🗸						

# **Filtering**

No.	Name	Severity	Skipped	Cannot determine search/fix		
1	IP Options disabled	Critical	False	False	Error 🗶	
	rated fix: ions drop					
Fix notice: RSVP and other protocols that use IP Options packets may not function as expected.						
2	ACL filter IPv6 unknown extended header	Critical	True	False	Not relevant  ✓	
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						
3	ACL filter IPv6 unknown extended header applied on ACCESS interface	Critical	True	False	Not relevant  ✓	
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.					

# **First Hop Security**

No.	Name	Severity	Skipped	Cannot determine search/fix	
L	Port security enabled	Critical	False	False	Error X
Four Gigal Gigal Gigal Gigal Gigal Gigal Gigal	Port security enabled  nd port(s) with error: bitEthernet0/2 bitEthernet1/3 bitEthernet2/0 bitEthernet2/1 bitEthernet2/3 bitEthernet3/0 bitEthernet3/1 bitEthernet3/2 bitEthernet3/3	Critical	False	False	Error X

#### Generated fix: interface GigabitEthernet0/2 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security interface GigabitEthernet0/3 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet1/3 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet2/0 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet2/1 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet2/2 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet2/3 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet3/0 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet3/1 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet3/2 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit interface GigabitEthernet3/3 switchport port-security mac-address sticky switchport port-security maximum 1 switchport port-security violation shutdown switchport port-security exit Port security maximum 1 allowed MAC 2 Critical False False Successful < on port 3 Port security violation shutdown Critical **False** False Successful < 4 802.1x globally enabled High **False** False Error X Generated fix: dot1x system-auth-control AAA authentication 802.1x High **False** False Error X

Generated fix: aaa authentication dot1x default group RADIUS_SERVER						
6 802.1x enabled on interfaces	High	False	False	Error 🗶		
aaa authentication dot1x default group RADIUS_SE		False	False	Error X		

# Generated fix:

interface GigabitEthernet0/2 access-session port-control auto authentication port-control auto dot1x port-control auto

yes

exit

interface GigabitEthernet0/3 access-session port-control auto authentication port-control auto dot1x port-control auto

yes

exit

interface GigabitEthernet1/3 access-session port-control auto authentication port-control auto dot1x port-control auto

yes

exit

interface GigabitEthernet2/0 access-session port-control auto authentication port-control auto dot1x port-control auto

yes exit

interface GigabitEthernet2/1 access-session port-control auto authentication port-control auto dot1x port-control auto

yes

exit

interface GigabitEthernet2/2 access-session port-control auto authentication port-control auto dot1x port-control auto

yes exit

interface GigabitEthernet2/3 access-session port-control auto authentication port-control auto dot1x port-control auto

yes exit

interface GigabitEthernet3/0 access-session port-control auto authentication port-control auto

dot1x port-control auto

yes

exit

interface GigabitEthernet3/1 access-session port-control auto authentication port-control auto dot1x port-control auto

yes

exit

interface GigabitEthernet3/2 access-session port-control auto authentication port-control auto dot1x port-control auto

yes

exit

interface GigabitEthernet3/3 access-session port-control auto authentication port-control auto dot1x port-control auto

yes exit

### Fix notice:

Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions.

7	802.1x enabled on interfaces	High	False	False	Successful 🗸	
8	802.1x port set authenticator	High	False	False	Error 🗶	

# Found port(s) with error: GigabitEthernet0/2 GigabitEthernet0/3 GigabitEthernet1/3 GigabitEthernet2/0 GigabitEthernet2/1 GigabitEthernet2/2 GigabitEthernet2/3 GigabitEthernet3/0 GigabitEthernet3/1 GigabitEthernet3/2 GigabitEthernet3/3 Generated fix: interface GigabitEthernet0/2 dot1x pae authenticator exit interface GigabitEthernet0/3 dot1x pae authenticator interface GigabitEthernet1/3 dot1x pae authenticator exit interface GigabitEthernet2/0 dot1x pae authenticator interface GigabitEthernet2/1 dot1x pae authenticator exit interface GigabitEthernet2/2 dot1x pae authenticator interface GigabitEthernet2/3 dot1x pae authenticator exit interface GigabitEthernet3/0 dot1x pae authenticator exit interface GigabitEthernet3/1 dot1x pae authenticator exit interface GigabitEthernet3/2 dot1x pae authenticator interface GigabitEthernet3/3 dot1x pae authenticator exit 9 DHCP Snooping globally enabled Critical False False Error X Generated fix: ip dhcp snooping Fix notice: On router(s) to DHCP server issue command "ip dhcp relay information trust-all" 10 DHCP Snooping enabled for VLAN(s) Critical **False False** Error X Generated fix: ip dhcp snooping vlan 10,20,30,40,50,60 DHCP Snooping trust interface(s) set Critical 11 **False False** Error X Found port(s) with error: Port-channel1 GigabitEthernet0/1 GigabitEthernet1/0 GigabitEthernet1/1 GigabitEthernet1/2

### Generated fix:

interface Port-channel1 ip dhcp snooping trust exit

interface GigabitEthernet0/1

ip dhcp snooping trust

exit

interface GigabitEthernet1/0

ip dhcp snooping trust

exit

interface GigabitEthernet1/1

ip dhcp snooping trust

exit

interface GigabitEthernet1/2

ip dhcp snooping trust

exit

DHCP Snooping rate limit fo ACCESS interface(s) set

High

False

**False** 

Error X

# •

# Found port(s) with error:

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0 GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

### Generated fix:

interface GigabitEthernet0/2 ip dhcp snooping limit rate 100 exit

interface GigabitEthernet0/3 ip dhcp snooping limit rate 100 exit

interface GigabitEthernet1/3 ip dhcp snooping limit rate 100 exit

interface GigabitEthernet2/0

ip dhcp snooping limit rate 100 exit

interface GigabitEthernet2/1 ip dhcp snooping limit rate 100

exit interface GigabitEthernet2/2 ip dhcp snooping limit rate 100

exit interface GigabitEthernet2/3 ip dhcp snooping limit rate 100

exit interface GigabitEthernet3/0 ip dhcp snooping limit rate 100

exit interface GigabitEthernet3/1 ip dhcp snooping limit rate 100

exit interface GigabitEthernet3/2 ip dhcp snooping limit rate 100

exit interface GigabitEthernet3/3

ip dhcp snooping limit rate 100 exit

13	IPv6 Unicast Routing enabled	Critical	True	False	Not relevant ✓				
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
14	IPv6 RA Guard host policy defined	Critical	True	False	Not relevant ✓				
	ment: ped, required function ipv6 not configured on device	ce. Everythin	g is OK.						
15	IPv6 RA Guard on ACCESS interface(s)	Critical	True	False	Not relevant ✓				
	ment: ped, required function ipv6 not configured on device	ce. Everythin	g is OK.						
16	DHCPv6 Server policy	Critical	True	False	Not relevant ✓				
	<b>ment:</b> Ded, required function ipv6 not configured on device	ce. Everythin	g is OK.						
17	DHCPv6 Client policy	Critical	True	False	Not relevant ✓				
	<b>ment:</b> ped, required function ipv6 not configured on device	ce. Everythin	g is OK.						
18	DHCPv6 Guard server interface(s) set	Critical	True	False	Not relevant ✓				
	<b>ment:</b> ped, required function ipv6 not configured on device	ce. Everythin	g is OK.						
19	DHCPv6 Guard client interface(s) set	Critical	True	False	Not relevant ✓				
	ment:  ped, required function ipv6 not configured on device	ce. Everythin	g is OK.						
20	Dynamic ARP Inspection enabled for VLAN(s)	Critical	False	False	Error 🗶				
	erated fix: p inspection vlan 10,20,30,40,50,60								
21	Dynamic ARP Inspection validate by SRC,DST MAC and IP	Critical	False	False	Error X				
Generated fix: ip arp inspection validate src-mac dst-mac ip									
22	Dynamic ARP trusted interface(s) set	Critical	False	False	Error 🗶				
Port- Giga Giga Giga	nd port(s) with error: channel1 bitEthernet0/1 bitEthernet1/0 bitEthernet1/1 bitEthernet1/2								

### Generated fix: interface Port-channel1 ip arp inspection trust exit interface GigabitEthernet0/1 ip arp inspection trust exit interface GigabitEthernet1/0 ip arp inspection trust exit interface GigabitEthernet1/1 ip arp inspection trust exit interface GigabitEthernet1/2 ip arp inspection trust exit Not relevant 23 IPv6 ND inspection policy Critical True **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant 24 IPv6 ND inspection on interface(s) set Critical True **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant 25 IPv6 Snooping policy Critical True **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant IPv6 Snooping on interface(s) set Critical True **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. 27 IP Source Guard on interface(s) set Critical **False False** Error X Found port(s) with error: GigabitEthernet0/2 GigabitEthernet0/3 GigabitEthernet1/3 GigabitEthernet2/0 GigabitEthernet2/1 GigabitEthernet2/2 GigabitEthernet2/3 GigabitEthernet3/0 GigabitEthernet3/1 GigabitEthernet3/2 GigabitEthernet3/3

Generated fix: interface GigabitEthernet0/2 ip verify source port-security exit interface GigabitEthernet0/3 ip verify source port-security exit interface GigabitEthernet1/3 ip verify source port-security exit interface GigabitEthernet2/0 ip verify source port-security exit interface GigabitEthernet2/1 ip verify source port-security exit interface GigabitEthernet2/2 ip verify source port-security exit interface GigabitEthernet2/3 ip verify source port-security exit interface GigabitEthernet2/3 ip verify source port-security exit interface GigabitEthernet3/0 ip verify source port-security exit interface GigabitEthernet3/1						
ip verify source port-security exit interface GigabitEthernet3/3 ip verify source port-security exit  28 IPv6 Source Guard policy	Critical	True	False	Not relevant		
Comment: Skipped, required function ipv6 not configured on devi	ce. Everythin	g is OK.		<b>✓</b>		
29 IPv6 Source Guard on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on devi	ce. Everythin	g is OK.				
30 IPv6 Destination Guard policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						
31 IPv6 Destination Guard on interface(s) set	Critical	True	False	Not relevant ✓		
<b>Comment:</b> Skipped, required function ipv6 not configured on devi	ce. Everythin	g is OK.				

# Other

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Servis PAD disabled (Packet assembler disassembler)	High	False	False	Error X
	rated fix: rvice pad				
2	BOOTP server disabled	High	False	False	Error 🗶
	rated fix: bootp server				
3	Finger protocol disabled	High	False	False	Successful 🗸

4	HTTP server disabled	High	False	False	Error 🗶
	r configuration setting found in: p server				
5	HTTPS server disabled	High	False	False	Successful 🗸
6	TCP small server disabled	High	False	False	Successful 🗸
7	UDP small server disabled	High	False	False	Successful 🗸
8	IP domain lookup disabled	High	False	False	Error 🗶
no ip	erated fix: domain-lookup domain lookup				
	notice: one of fixing command is applicable to device. The	ere are more l	pecause of diff	ferent syntax ar	mong IOS versions.
9	Gratuitous ARPs generation disabled	High	False	False	Error 🗶
	erated fix: gratuitous-arps				
10	Gratuitous ARPs reject enabled	High	False	False	Error 🗶
	erated fix: o gratuitous none				
11	Netflow is disabled	Notice	False	False	Successful 🗸
By de	gnore comment: efault fix is ignored due to disablement of traffic r toring	monitoring. Co	nsider whethe	er port mirroring	
12	Netflow version 9 used	Medium	False	False	Not relevant ✓
Modu	ment: ale 15_14_netflow_version_9.yaml configured to related to re				or but that module
13	Netflow traffic analyze disabled on interface(s)	Notice	False	False	Not relevant ✓
Modu	<b>ment:</b> lle 15_15_netflow_interface.yaml configured to ru un yet with specified cmd_match_status, 15_15_n				or but that module has
By de	gnore comment: efault fix is ignored due to disablement of traffic r toring	monitoring. Co	nsider whethe	er port mirroring	is neccesary for
14	Port mirroring disabled on interface(s)	Notice	False	False	Successful 🗸
By de	gnore comment: efault fix is ignored due to disablement of traffic r toring		nsider whethe	er port mirroring	is neccesary for
15	Set always "UP" Loopback interface wit IP address	h Medium	False	False	Error 🗶
interi ip ad snmp no ip no ip no ip	erated fix: Face loopback 0 dress 1.1.1.1 255.255.255.0 drifindex persist redirects unreachables v6 unreachables proxy-arp				
If IP a	n <b>otice:</b> address and mask is not in this module, fallback s loopbacks accross multiple devices!	settings from o	wn_variables.	yaml are used.	So it may cause same
1.0	Natification on manner (O lock/overfle			- 1	_ •

16 Notification on memory IO leak/overflow Medium False

Error 🗶

False

	erated fix: otion memory ignore overflow io								
17	Notification on memory CPU leak/overflow	Medium	False	False	Error 🗶				
	Generated fix: exception memory ignore overflow processor								
18	Network boot disabled	Medium	False	False	Successful 🗸				
19	Network config load disabled	Medium	False	False	Successful 🗸				
20	SCP server enabled	Medium	False	False	Error 🗶				
	erated fix: o server enable								
21	SCP alias copy instead of TFTP	High	False	False	Successful 🗸				
22	Protection of configuration deletion	High	False	False	Error 🗶				
secui secui	Generated fix: secure boot config secure boot-config  Fix notice: Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions.								
23	Archive and log config changes	Medium	False	False	Error 🗶				
archi path log co loggi notify hidek maxi	unix: onfig ng enable v syslog								
24	Terminate hanged inbound TCP connection to device	Medium	False	False	Error X				
	erated fix: ce tcp-keepalives-in								
25	Terminate hanged outbound TCP connection to device	Medium	False	False	Error X				
	erated fix: ce tcp-keepalives-out								
26	Encrypt all saved passwords in configuration	Critical	False	False	Successful 🗸				
	t configuration setting found in: ervice password-encryption								